

ABSTRACT

A structure and the shape of a kind of a universal wheel is provided, which includes drum-shaped rollers, bat-shaped brackets, mandrels, side panels, bearings, a central shaft and a wheel carrier. The drum-shaped rollers and the mandrels from a rim fixed in the bat-shaped brackets, and the bat-shaped brackets are connected to the side panels. The bearings, the central shaft and the wheel carrier are fixed on the center of the side panel. As the big and small drum-shaped rollers provide two degrees of freedom, the wheel can move in any direction without turning so that it can save the turning space. Moreover of the universal wheel has good sealing performance, and sand will not enter the inner chamber.